

ATTORNEY DOCKET NO. SAMS01-00063
U.S. SERIAL NO. 09/212,852
PATENT

IN THE CLAIMS

1) Please cancel Claim 1, 9 and 17.

2) Please amend Claims 2-4 and 6-8 as follows:

2. (Amended) The partitioned selection and distribution unit set forth in Claim 7 wherein said radio link protocol functions comprise selection of preferred ones of incoming wireless traffic frames received from said first base station.

3. (Amended) The partitioned selection and distribution unit set forth in Claim 7 wherein said radio link protocol functions comprise controlling a transmission power of a selected one of said plurality of mobile stations.

4. (Amended) The partitioned selection and distribution unit set forth in Claim 7 wherein said physical layer protocol functions comprise a decompression of voice traffic from a first bit rate to a second bit rate.

6. (Amended) The partitioned selection and distribution unit set forth in Claim 7 wherein said physical layer protocol functions comprise a transcoding of circuit data from a first bit rate to a second bit rate.

7. (Amended) For use in a CDMA wireless network comprising a plurality of base stations capable of communicating with a plurality of mobile stations located in a coverage area of said CDMA wireless network, a partitioned selection and distribution unit (SDU) comprising:

a first controller associated with a first one of said plurality of base stations capable of performing radio link protocol functions related to wireless communication links between said first base station and at least one of said plurality of mobile stations; and

a second controller associated with a mobile switching center (MSC) of said CDMA wireless network capable of performing physical layer protocol functions related to transmission of wireline data comprising at least one of voice traffic and data traffic between said CDMA wireless network and a wired network coupled to said CDMA wireless network, wherein said physical layer protocol functions comprise a conversion of data frames received from said first base station to data packets suitable for transmission over a packet data network coupled to said CDMA wireless network.

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8. (Amended) The partitioned selection and distribution unit set forth in Claim 7 wherein said first controller is disposed in said first base station and said second controller is disposed in said mobile switching center (MSC).

3) Please cancel Claim 9.

4) Please amend Claims 10-12 and 14-15 as follows:

10. (Amended) The CDMA-based wireless network set forth in Claim 16 wherein said radio link protocol functions comprise selection of preferred ones of incoming wireless traffic frames received from said first base station.

11. (Amended) The CDMA-based wireless network set forth in Claim 16 wherein said radio link protocol functions comprise controlling a transmission power of a selected one of said plurality of mobile stations.

12. (Amended) The CDMA-based wireless network set forth in Claim 16 wherein said physical layer protocol functions comprise a decompression of voice traffic from a first bit rate to a second bit rate.

14. (Amended) The CDMA-based wireless network set forth in Claim 16 wherein said physical layer protocol functions comprise a transcoding of circuit data from a first bit rate to a second bit rate.

15. (Amended) A CDMA wireless network capable of communicating with a plurality of mobile stations located in a coverage area of said CDMA wireless network, said CDMA wireless network comprising;

a plurality of base stations capable of wirelessly communicating with said plurality of mobile stations, a first one of said plurality of base stations comprising a first controller capable of performing radio link protocol functions related to wireless communication links between said first base station and said plurality of mobile stations; and

a mobile switching center capable of transferring call traffic between said plurality of base stations and a wired network coupled to said CDMA wireless network, said mobile switching center comprising a second controller capable of performing physical layer protocol functions related

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to transmission of wireline data comprising at least one of voice traffic and data traffic between said CDMA wireless network and said wired network, wherein said physical layer protocol functions comprise a conversion of data frames received from said first base station to data packets suitable for transmission over a packet data network coupled to said CDMA wireless network.

5) Please cancel Claim 17.

6) Please amend Claims 18-21 as follows:

18. (Amended) The method set forth in Claim 20 wherein the radio link protocol functions comprise at least one of selection of preferred ones of incoming wireless traffic frames received from the first base station and controlling a transmission power of a selected one of the plurality of mobile stations.

19. (Amended) The method set forth in Claim 20 wherein the physical layer protocol functions comprise at least one of decompressing voice traffic from a first bit rate to a second bit rate and transcoding circuit data from a first bit rate to a second bit rate.

20. (Amended) A method of operating a CDMA wireless network comprising a plurality of base stations capable of communicating with a plurality of mobile stations located in a coverage area of the CDMA wireless network, the method comprising the steps of:

receiving in a first base station at least one of voice traffic and data traffic transmitted by a selected one of the plurality of mobile stations;

performing in the first base station radio link protocol functions related to wireless communication links between the first base station and the selected mobile station; and

performing physical layer protocol functions in a mobile switching station of the CDMA wireless network, wherein the physical layer protocol functions are related to transmission of wireline data comprising at least one of voice traffic and data traffic between the CDMA wireless network and a wired network coupled to the CDMA wireless network, wherein the physical layer protocol functions comprise a conversion of data frames received from the first base station to data packets suitable for transmission over a packet data network coupled to the CDMA wireless network station.

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21. (Amended) The method set forth in Claim 20 wherein the step of decompressing voice traffic from a first bit rate to a second bit rate is performed by a vocoder.

7) Please add new Claims 22-35 as follows:

22. (New) For use in a CDMA wireless network comprising a plurality of base stations capable of communicating with a plurality of mobile stations located in a coverage area of said CDMA wireless network, a partitioned selection and distribution unit (SDU) comprising:

a first controller associated with a first one of said plurality of base stations capable of performing radio link protocol functions related to wireless communication links between said first base station and at least one of said plurality of mobile stations; and

a second controller associated with a mobile switching center (MSC) of said CDMA wireless network capable of performing physical layer protocol functions related to transmission of wireline data comprising at least one of voice traffic and data traffic between said CDMA wireless network and a wired network coupled to said CDMA wireless network, wherein said first controller is disposed in said first base station and said second controller is disposed in said mobile switching center (MSC).

23. (New) The partitioned selection and distribution unit set forth in Claim 22 wherein said radio link protocol functions comprise selection of preferred ones of incoming wireless traffic frames received from said first base station.

24. (New) The partitioned selection and distribution unit set forth in Claim 22 wherein said radio link protocol functions comprise controlling a transmission power of a selected one of said plurality of mobile stations.

25. (New) The partitioned selection and distribution unit set forth in Claim 22 wherein said physical layer protocol functions comprise a decompression of voice traffic from a first bit rate to a second bit rate.

26. (New) The partitioned selection and distribution unit set forth in Claim 25 wherein said decompression is performed by a vocoder.

27. (New) The partitioned selection and distribution unit set forth in Claim 22 wherein said physical layer protocol functions comprise a transcoding of circuit data from a first bit rate to a second bit rate.

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28. (New) The partitioned selection and distribution unit set forth in Claim 22 wherein said physical layer protocol functions comprise a conversion of data frames received from said first base station to data packets suitable for transmission over a packet data network coupled to said CDMA wireless network.

29. (New) A CDMA wireless network capable of communicating with a plurality of mobile stations located in a coverage area of said CDMA wireless network, said CDMA wireless network comprising;

a plurality of base stations capable of wirelessly communicating with said plurality of mobile stations, a first one of said plurality of base stations comprising a first controller disposed in said first base station capable of performing radio link protocol functions related to wireless communication links between said first base station and said plurality of mobile stations; and

a mobile switching center capable of transferring call traffic between said plurality of base stations and a wired network coupled to said CDMA wireless network, said mobile switching center comprising a second controller disposed in said mobile switching center capable of performing physical layer protocol functions related to transmission of wireline data comprising at least one of voice traffic and data traffic between said CDMA wireless network and said wired network.

30. (New) The CDMA-based wireless network set forth in Claim 29 wherein said radio link protocol functions comprise selection of preferred ones of incoming wireless traffic frames received from said first base station.

31. (New) The CDMA-based wireless network set forth in Claim 29 wherein said radio link protocol functions comprise controlling a transmission power of a selected one of said plurality of mobile stations.

32. (New) The CDMA-based wireless network set forth in Claim 29 wherein said physical layer protocol functions comprise a decompression of voice traffic from a first bit rate to a second bit rate.

33. (New) The CDMA-based wireless network set forth in Claim 32 wherein said decompression is performed by a vocoder.

34. (New) The CDMA-based wireless network set forth in Claim 29 wherein said physical layer protocol functions comprise a transcoding of circuit data from a first bit rate to a second bit rate.